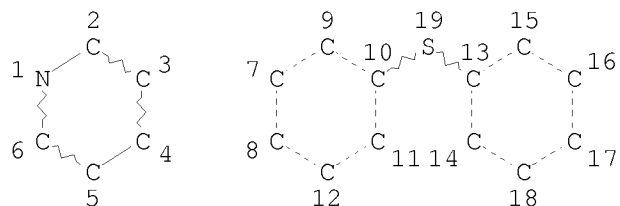


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=> d 11
L1 HAS NO ANSWERS
L1 STR
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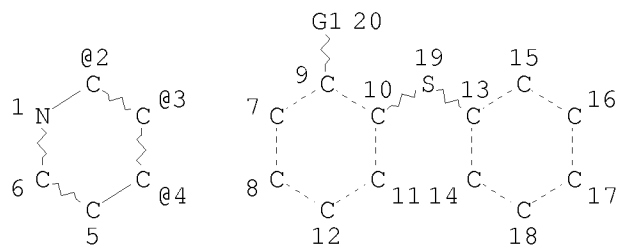


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NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
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GRAPH ATTRIBUTES:
RSPEC 4 13 10
NUMBER OF NODES IS 19
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STEREO ATTRIBUTES: NONE
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```
=> d 111
L11 HAS NO ANSWERS
L11 STR
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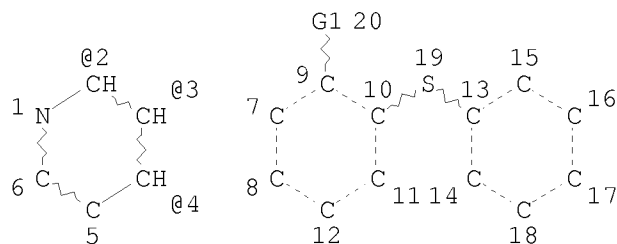


```
VAR G1=2/3/4
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
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```
GRAPH ATTRIBUTES:
RSPEC 4 13 10
NUMBER OF NODES IS 20
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```
STEREO ATTRIBUTES: NONE
```

```
=> d 113
L13 HAS NO ANSWERS
L13 STR
```



VAR G1=2/3/4  
 NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RSPEC 4 13 10  
 NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE

=> d his l14

(FILE 'REGISTRY' ENTERED AT 10:27:31 ON 16 SEP 2008)  
 L14 263 SEARCH L13 SSS FUL

=> fil caplus

|  |                  |               |
|--|------------------|---------------|
| COST IN U.S. DOLLARS                       | SINCE FILE ENTRY | TOTAL SESSION |
| FULL ESTIMATED COST                        | 222.30           | 584.63        |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE                        | 0.00             | -11.20        |

FILE 'CAPLUS' ENTERED AT 10:30:41 ON 16 SEP 2008  
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FILE COVERS 1907 - 16 Sep 2008 VOL 149 ISS 12  
 FILE LAST UPDATED: 15 Sep 2008 (20080915/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s 114

L15 6 L14

=> d bib 1-6

L15 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2007:1454990 CAPLUS

DN 148:61901

TI Crystalline forms of 4-[2-(4-methylphenylsulfanyl)phenyl]piperidine with combined serotonin and norepinephrine reuptake inhibition for the treatment of neuropathic pain

IN Bang-Andersen, Benny; Faldt, Andre; Stensboel, Tine Bryan; Miller, Silke; Lopez De Diego, Heidi

PA H. Lundbeck A/S, Den.

SO PCT Int. Appl., 71pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

|        | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|--------|--|------|----------|-----------------|----------|
|        | -----  | ---- | -----    | -----           | -----    |
| PI     | WO 2007144006  | A1   | 20071221 | WO 2007-DK50076 | 20070615 |
|        | W:   |      |          |                 |          |
|        | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW |      |          |                 |          |
|        | RW:  |      |          |                 |          |
|        | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM   |      |          |                 |          |
| PRAI   | DK 2006-816  | A    | 20060616 |                 |          |
|        | US 2006-805009P  | P    | 20060616 |                 |          |
|        | DK 2007-423  | A    | 20070320 |                 |          |
| RE.CNT | 3  |      |          |                 |          |
|        | THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD   |      |          |                 |          |
|        | ALL CITATIONS AVAILABLE IN THE RE FORMAT   |      |          |                 |          |

L15 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2004:857401 CAPLUS

DN 141:332062

TI Preparation of [(phenylsulfanyl)phenyl]piperidine derivatives as serotonin reuptake inhibitors

IN Pueschl, Ask; Jorgensen, Morten; Ruhland, Thomas; Bryan, Stensbol Tine; Bang-Andersen, Benny

PA H. Lundbeck A/S, Den.

SO PCT Int. Appl., 91 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

|    | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|----|---|------|----------|-----------------|----------|
|    | -----   | ---- | -----    | -----           | -----    |
| PI | WO 2004087156   | A1   | 20041014 | WO 2004-DK244   | 20040402 |
|    | W:  |      |          |                 |          |
|    | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, |      |          |                 |          |

GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,  
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,  
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,  
BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,  
TD, TG

AU 2004226838 A1 20041014 AU 2004-226838 20040402  
CA 2521258 A1 20041014 CA 2004-2521258 20040402  
EP 1626720 A1 20060222 EP 2004-725291 20040402  
EP 1626720 B1 20080903

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR

BR 2004008647 A 20060307 BR 2004-8647 20040402  
CN 1780622 A 20060531 CN 2004-80009174 20040402  
JP 2006522030 T 20060928 JP 2006-504349 20040402  
MX 2005PA09592 A 20051018 MX 2005-PA9592 20050908  
IN 2005CN02513 A 20070831 IN 2005-CN2513 20051004  
NO 2005005208 A 20051104 NO 2005-5208 20051104  
US 20060100242 A1 20060511 US 2005-551883 20051129  
PRAI DK 2003-520 A 20030404  
US 2003-460528P P 20030404  
WO 2004-DK244 W 20040402

OS MARPAT 141:332062

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN  
AN 2004:202756 CAPLUS  
DN 142:134387  
TI Product subclass 4: benzothiepins and selenium/tellurium analogues  
AU Schwan, A. L.  
CS Dept. of Chemistry and Biochem., University of Guelph, Guelph, ON, N1G  
2W1, Can.  
SO Science of Synthesis (2004), 17, 717-748  
CODEN: SSCYJ9  
PB Georg Thieme Verlag  
DT Journal; General Review  
LA English

RE.CNT 119 THERE ARE 119 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN  
AN 2003:282552 CAPLUS  
DN 138:304306  
TI Preparation of phenylpiperazines as serotonin reuptake inhibitors  
IN Ruhland, Thomas; Smith, Garrick Paul; Bang-Andersen, Benny; Pueschl, Ask;  
Moltzen, Ejner Knud; Andersen, Kim  
PA H. Lundbeck A/S, Den.  
SO PCT Int. Appl., 35 pp.  
CODEN: PIXXD2  
DT Patent  
LA English

FAN.CNT 1

| PATENT NO.       | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------|------|----------|-----------------|----------|
| -----            | ---- | -----    | -----           | -----    |
| PI WO 2003029232 | A1   | 20030410 | WO 2002-DK659   | 20021002 |
| W:               |      |          |                 |          |
|                  |      |          |                 |          |

AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,  
 PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,  
 UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,  
 FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF,  
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

|               |    |          |                 |          |
|---------------|----|----------|-----------------|----------|
| CA 2462110    | A1 | 20030410 | CA 2002-2462110 | 20021002 |
| AU 2002333220 | A1 | 20030414 | AU 2002-333220  | 20021002 |
| AU 2002333220 | A2 | 20030414 |                 |          |
| AU 2002333220 | B2 | 20080207 |                 |          |
| EP 1436271    | A1 | 20040714 | EP 2002-800051  | 20021002 |
| EP 1436271    | B1 | 20080220 |                 |          |

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK

|               |    |          |                |          |
|---------------|----|----------|----------------|----------|
| BR 2002012733 | A  | 20041116 | BR 2002-12733  | 20021002 |
| CN 1561336    | A  | 20050105 | CN 2002-819025 | 20021002 |
| JP 2005505585 | T  | 20050224 | JP 2003-532482 | 20021002 |
| JP 3896116    | B2 | 20070322 |                |          |
| HU 2004002313 | A2 | 20050228 | HU 2004-2313   | 20021002 |
| NZ 531556     | A  | 20051223 | NZ 2002-531556 | 20021002 |
| EP 1749818    | A2 | 20070207 | EP 2006-16609  | 20021002 |
| EP 1749818    | A3 | 20080402 |                |          |

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT,  
 LI, LU, MC, NL, PT, SE, SK, TR, AL, LT, LV, MK, RO, SI

|                |    |          |                |          |
|----------------|----|----------|----------------|----------|
| AT 386730      | T  | 20080315 | AT 2002-800051 | 20021002 |
| ES 2298425     | T3 | 20080516 | ES 2002-800051 | 20021002 |
| ZA 2004001583  | A  | 20050310 | ZA 2004-1583   | 20040226 |
| MX 2004PA02959 | A  | 20040705 | MX 2004-PA2959 | 20040330 |
| KR 770194      | B1 | 20071025 | KR 2004-704897 | 20040402 |
| NO 2004001628  | A  | 20040421 | NO 2004-1628   | 20040421 |
| IN 2004CN00910 | A  | 20060113 | IN 2004-CN910  | 20040429 |
| US 20050014740 | A1 | 20050120 | US 2004-488280 | 20040615 |
| US 7144884     | B2 | 20061205 |                |          |
| HK 1072600     | A1 | 20080125 | HK 2005-105260 | 20050623 |
| US 20060084662 | A1 | 20060420 | US 2005-296835 | 20051206 |
| US 7138407     | B2 | 20061121 |                |          |
| US 20060089368 | A1 | 20060427 | US 2005-296836 | 20051206 |
| US 7148238     | B2 | 20061212 |                |          |
| AU 2006215994  | A9 | 20061005 | AU 2006-215994 | 20060914 |
| AU 2006215994  | A2 | 20061005 |                |          |
| AU 2006215994  | A1 | 20061005 |                |          |
| JP 2007031447  | A  | 20070208 | JP 2006-271762 | 20061003 |
| JP 3955614     | B2 | 20070808 |                |          |
| JP 2007051149  | A  | 20070301 | JP 2006-271758 | 20061003 |
| JP 3955613     | B2 | 20070808 |                |          |
| US 20070060574 | A1 | 20070315 | US 2006-551188 | 20061019 |
| KR 783346      | B1 | 20071207 | KR 2006-722562 | 20061027 |
| KR 2007103515  | A  | 20071023 | KR 2007-722025 | 20070927 |
| KR 842702      | B1 | 20080701 |                |          |

|                   |    |          |  |  |
|-------------------|----|----------|--|--|
| PRAI DK 2001-1466 | A  | 20011004 |  |  |
| AU 2002-333220    | A3 | 20021002 |  |  |
| EP 2002-800051    | A3 | 20021002 |  |  |
| JP 2003-532482    | A3 | 20021002 |  |  |
| WO 2002-DK659     | W  | 20021002 |  |  |
| KR 2004-704897    | A3 | 20040402 |  |  |
| US 2004-488280    | A3 | 20040615 |  |  |
| KR 2006-722562    | A3 | 20061027 |  |  |

OS MARPAT 138:304306

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

## ALL CITATIONS AVAILABLE IN THE RE FORMAT

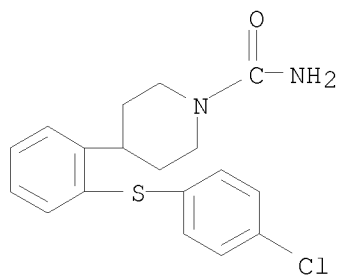
L15 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN  
AN 1995:836619 CAPLUS  
DN 124:86950  
OREF 124:16343a,16346a  
TI 2H-Benzimidazoles (isobenzimidazoles). Part 10. Synthesis of  
polysubstituted o-phenylenediamines and their conversion into  
heterocycles, particularly 2-substituted benzimidazoles with known or  
potential anthelmintic activity  
AU Hazelton, Justine C.; Iddon, Brian; Suschitzky, Hans; Wolley, Ley H.  
CS Science Res. Inst., Univ. Salford, Salford, M5 4WT, UK  
SO Tetrahedron (1995), 51(39), 10771-94  
CODEN: TETRAB; ISSN: 0040-4020  
PB Elsevier  
DT Journal  
LA English  
OS CASREACT 124:86950

L15 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN  
AN 1980:471569 CAPLUS  
DN 93:71569  
OREF 93:11633a,11636a  
TI Phenylthiophenylpiperidines  
IN Ong, Helen H.; Profitt, James A.  
PA American Hoechst Corp., USA  
SO U.S., 16 pp.  
CODEN: USXXAM  
DT Patent  
LA English  
FAN.CNT 1

|      | PATENT NO.      | KIND | DATE     | APPLICATION NO. | DATE     |
|------|-----------------|------|----------|-----------------|----------|
|      | -----           | ---- | -----    | -----           | -----    |
| PI   | US 4198419      | A    | 19800415 | US 1979-2349    | 19790110 |
|      | DE 2952066      | A1   | 19800724 | DE 1979-2952066 | 19791222 |
|      | JP 55094364     | A    | 19800717 | JP 1980-2517    | 19800110 |
|      | FR 2446282      | A1   | 19800808 | FR 1980-461     | 19800110 |
|      | FR 2446282      | B1   | 19820521 |                 |          |
|      | GB 2040936      | A    | 19800903 | GB 1980-914     | 19800110 |
|      | GB 2040936      | B    | 19830615 |                 |          |
| PRAI | US 1979-2349    | A    | 19790110 |                 |          |
| OS   | MARPAT 93:71569 |      |          |                 |          |

=> d hitstr 6

L15 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN  
IT 74442-94-7P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 74442-94-7 CAPLUS  
CN 1-Piperidinecarboxamide, 4-[2-[(4-chlorophenyl)thio]phenyl]- (CA INDEX  
NAME)



=> d hitstr 5

L15 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

IT 172362-57-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of substituted phenylenediamines and their conversion into heterocyclic compds.)

RN 172362-57-1 CAPLUS

CN 1,2-Benzenediamine, 4-(phenylsulfonyl)-3-(4-piperidinyl)- (CA INDEX NAME)

